

The Belfry

Outfitting a Control Room for
MINOS in Wilson Hall 12 NW

Computing Hardware

- Option 1 – The Works

- Computers

- DCS: UMD will provide Windows machine \$0
 - Beam, CRL, Run control: 3 Dell Optiplex @ \$1,167 = \$3,501
 - Online Monitoring: 2 Dell Dimensions @ \$2,036 = \$4,072

- Screens

- 12 flat screens @ \$456 = \$5,472

- Total

- Computers: \$7,503
 - Screens: \$5,472
 - Total: \$12,975

Computing Hardware

- Where we can scale down
 - Eliminate the FD OM machine and run a GUI interface to the machine at Soudan. The feasibility of this depends on the network response. Savings = \$2,036.
 - Eliminate CRL Station. Savings = \$1,653.
 - ND and FD run control GUIs on the same screen. Savings = \$456.
 - ND and FD DCS on the same screen. Savings = \$456.
 - Replace some or all flat screens with CRTs @ \$244. Savings = \$212 per screen.
 - Bargain basement cost is \$6324.

Furniture

- Computing Desks
 - Needed for ergonomic considerations
 - Assume 4 desks @ \$188 = \$752
- Chairs
 - Control Room: 5 @ \$203 = \$1,015
 - Conference Room: 5 @ \$203 = \$1,015
 - Could scale back the control room chairs to \$88 models but we are asking people to spend a whole shift sitting in them.
- Tables
 - Control room: 36" round table = \$307.
 - Conference room: 83" oval table = \$400.

Furniture

- Phones
 - control room: 3 speaker phones @ \$120 = \$360
 - conference room phone = \$400. (Could replace with fourth speaker phone; savings = \$280).
- Assume the following is available from surplus:
 - Desks
 - File cabinets
 - Bookshelves
 - Could get lucky and find suitable chairs, computer tables, etc, but these figures don't assume it.
- Depending on what we have to buy, potential furniture costs = \$4249.

Staged Implementation

- This plan costs
 - From \$9,718 (bargain basement computing, cheap chairs, and no conference phone)
 - To \$17,294 (the works).
- But we don't need it all at once.
 - Could we buy it on the “stone soup” plan, i.e., get just what we need now and hope for more money later?
 - Delay beam monitor screens and computer until FY04 (\$2991).
 - Delay ND OM and screens until FY05 (\$3860).